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United States Patent [19]

Kempf et al.

Patent Number:

5,541,206

Date of Patent: [45]

Jul. 30, 1996

RETROVIRAL PROTEASE INHIBITING **COMPOUNDS**

- [75] Inventors: Dale J. Kempf, Libertyville; Daniel W. Norbeck, Crystal Lake; Hing Leung Sham; Chen Zhao, both of Gurnee, all of Ill.
- [73] Assignee: Abbott Laboratories, Abbott Park, Ill.
- [21] Appl. No.: 423,387
- [22] Filed: Apr. 25, 1995

Related U.S. Application Data

- [63] Continuation of Ser. No. 158,587, Dec. 2, 1993, abandoned, which is a continuation-in-part of Ser. No. 998,114, Dec. 29, 1992, abandoned, which is a continuation-in-part of Ser. No. 777,626, Oct. 23, 1991, abandoned, which is a continuation-in-part of Ser. No. 746,020, Aug. 15, 1991, abandoned, which is a continuation-in-part of Ser. No. 616,170, Nov. 20, 1990, abandoned, which is a continuation-in-part of Ser. No. 616,170, Nov. 20, 1990, abandoned, which is a continuation-in-part of Ser. No. 1990, abandoned, which is a continuation-in-part of Scr. No. 518,730, May 9, 1990, Pat. No. 5,142,056, which is a continuation-in-part of Scr. No. 456,124, Dec. 22, 1989, abandoned, which is a continuation-in-part of Ser. No. 405,604, Sep. 8, 1989, abandoned, which is a continuationin-part of Ser. No. 355,945, May 23, 1989, abandoned.
- [51] Int. Cl.⁶ A61K 31/425; C07D 413/12; C07D 417/12
- [52] U.S. Cl. 514/365; 548/204; 548/194; 548/187; 548/235; 548/227; 548/228; 548/229; 514/374; 514/369; 514/370; 514/376; 514/377
- [58] Field of Search 514/365, 374, 514/369, 370, 376, 377; 548/204, 194, 187, 235, 227, 228, 229

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Primary Examiner-Jane Fan Attorney, Agent, or Firm-Steven R. Crowley

ABSTRACT

A retroviral protease inhibiting compound of the formula:

$$R_1 \xrightarrow{R_2} 0 \xrightarrow{R_3} \xrightarrow{H} X \xrightarrow{R_{4o}} 0 \xrightarrow{R_6} R_7$$

is disclosed.

19 Claims, No Drawings